IN THE CLAIMS

1. (Original) A correction data acquisition method for an image display

device wherein an image is displayed with a plurality of primary colors, comprising the

steps of:

displaying an offset image with a black signal level at an image display section

in said image display device;

capturing said offset image by successively switching filters having bands

corresponding to said plurality of primary colors, respectively, so as to acquire a

multiband offset captured data;

sequentially displaying primary color images at said image display section, said

primary color images having predetermined signal levels for the corresponding primary

colors;

sequentially capturing said primary color images while switching said filters for

the corresponding primary colors, so as to acquire multiband primary color captured

data;

displaying primary color scale images at said image display section, said

primary color scale images having an input signal level that is gradually changed for

each of the corresponding primary colors;

sequentially capturing said primary color scale images so as to acquire a

primary color scale captured data; and

-2-

calculating an offset correction data based on said multiband offset captured

data, said multiband primary color captured data, and said primary color scale

captured data.

2. (Original) A correction data acquisition method for an image display

device wherein an image is displayed with a plurality of primary colors, comprising the

steps of:

displaying an offset image with a black level at an image display section in said

image display device;

capturing said offset image simultaneously through filters for the corresponding

primary colors, so as to acquire a multiband offset captured data;

sequentially displaying primary color images at said image display section, said

primary color images having signal levels of the corresponding primary colors;

capturing said primary color images simultaneously through said filters for the

corresponding primary colors, so as to acquire a multiband primary color captured

data;

sequentially displaying gray scale images in said image display section, said

gray scale images having gray scale signal levels;

simultaneously capturing said gray scale images through said filters for the

corresponding primary colors, so as to acquire primary color scale captured data; and

-3-

Application No.: Not Yet Known

calculating an offset correction data based on said multiband offset captured

data, said multiband primary color captured data, and said primary color scale

captured data.

3. (Currently Amended) The correction data acquisition method

according to claim 1 or 2, wherein, upon capturing for acquisition of said multiband

offset captured data, said multiband primary color captured data and said primary

color scale captured data, capturing of lights within a wavelength range above 650-

780nm is cut off.

4. (Currently Amended) The correction data acquisition method

according to any one of claims 1-3 claim 1, wherein, upon capturing for acquisition of

said multiband offset captured data, said multiband primary color captured data and

said primary color scale captured data, capturing of lights within a wavelength range

below 400nm is cut off.

5. (Currently Amended) The correction data acquisition method

according to any one of claims 1-4 claim 1, wherein the number of said primary colors

is not less than three.

-4-

Application No.: Not Yet Known

6. (Currently Amended) The correction data acquisition method

according to any one of claims 1-5 claim 1, wherein said image display section includes

a plurality of projectors for projecting and displaying one image.

7. (Currently Amended) The correction data acquisition method

according to any one of claims 1-6 claim 1, wherein said filters are designed so as to

allow transmission of a luminescence band ranges of a corresponding primary color and

transmission of at least part of luminescence band ranges of the other primary colors.

8. (Original) The correction data acquisition method according to claim 1,

wherein a tunable filter is used as said filters, said tunable filter being electrically

controllable so as to allow transmission of a luminescence band range of a

corresponding primary color and transmission of at least part of luminescence band

ranges of the other primary colors.

9. (Original) A calibration system for an image display device including an

image display section for displaying an image with a plurality of primary colors,

comprising:

a calibration pattern generating section for selectively displaying, at said image

display section, calibration patterns of an offset image at a black level, of primary color

images at predetermined signal levels of the corresponding primary colors, and of the

-5-

Application No.: Not Yet Known

corresponding primary colors acquired by sequentially changing input signal levels of

the corresponding primary colors;

an image capturing section which includes filters having bands for the

corresponding primary colors and a through-hole, said filters being designed for

allowing transmission of a luminescence band ranges of a corresponding primary color

and transmission of at least part of luminescence band ranges of the other primary

colors, said image capturing section being for capturing said calibration patterns

displayed at said image display section, while selecting said filters or said through-

hole; and

an image correction data calculating section for calculating offset correction data

based on multiband offset captured data acquired by sequentially capturing said offset

image with said image capturing section while switching said filters for the

corresponding primary colors, multiband primary color captured data acquired by

sequentially capturing said primary color images with said image capturing section

while switching said filters for the corresponding primary colors, and primary color

scale captured data acquired by sequentially capturing said primary color scale images

with said image capturing section through said through-hole.

10. (Original) A calibration system for an image display device including an

image display section for displaying an image with a plurality of primary colors,

comprising:

-6-

Application No.: Not Yet Known

a calibration pattern generating section for selectively displaying, at said image

display section, calibration patterns of an offset image at a black level, of primary color

images at predetermined signal levels of the corresponding primary colors, and of gray

scale images acquired by sequentially changing input signal levels of the corresponding

primary colors;

an image capturing section which includes filters having bands for the

corresponding primary colors and a through-hole, said filters being designed for

allowing transmission of a luminescence band ranges of a corresponding primary color

and transmission of at least part of luminescence band ranges of the other primary

colors, said image capturing section being for simultaneously capturing said calibration

patterns displayed at said image display section, through said filters; and

an image correction data calculating section for calculating an offset correction

data based on multiband offset captured data acquired by capturing said offset image

with said image capturing section, multiband primary color captured data acquired by

capturing said primary color images, and primary color scale captured data acquired by

capturing said primary color scale images.

11. (New) The correction data acquisition method according to claim 2,

wherein, upon capturing for acquisition of said multiband offset captured data, said

multiband primary color captured data and said primary color scale captured data,

capturing of lights within a wavelength range above 650-780nm is cut off.

-7-

Applicant: Takeyuki Ajito Application No.: Not Yet Known

12. (New) The correction data acquisition method according to claim 2,

wherein, upon capturing for acquisition of said multiband offset captured data, said

multiband primary color captured data and said primary color scale captured data,

capturing of lights within a wavelength range below 400nm is cut off.

13. (New) The correction data acquisition method according to claim 2,

wherein the number of said primary colors is not less than three.

14. (New) The correction data acquisition method according to claim 2,

wherein said image display section includes a plurality of projectors for projecting and

displaying one image.

15. (New) The correction data acquisition method according to claim 2,

wherein said filters are designed so as to allow transmission of a luminescence band

ranges of a corresponding primary color and transmission of at least part of

luminescence band ranges of the other primary colors.

-8-